

# PATHWAYS

## Computer Science (A.S. Degree)

FALL 2017-SPRING 2018

### REMEDIAL SEQUENCE (if required)

☐ ESL 1 (8) ▶▶ ☐ ESL 2 (6) ▶▶ ☐ ESL 3 (6) ▶▶ ☐ ENG 9 (4)

☐ ENG 1 (4) ▶▶ ☐ ENG 2 (4)

☐ RDL 1 (4) ▶▶ ☐ RDL 2 (6)

☐ MTH 1 (4) ▶▶ ☐ MTH 5 (6) ▶▶ ☐ MTH 6 (6)

☐ CHM 2 (4)

### GRADUATION REQUIREMENTS

☐ CAT-R ☐ CAT-W ☐ CAT-M ☐ GPA ≥ 2.0

☐ Writing Intensive 1 ☐ Writing Intensive 2

### FRESHMAN SEMINAR

☐ FYS 11

<sup>1</sup>A student who must take MTH 30 uses free elective credits for this purpose.

<sup>2</sup>Lab Science I & II must form a sequence, e.g., BIO 11 & BIO 12.

Notes:

- The program has been given a waiver to require its students to take MTH 31 to fulfill Required Area B, BIO 11 or CHM 11 or PHY 11 or PHY 31 to fulfill Required Area C, CSI 30 to fulfill Flexible Area E, BIO 12 or CHM 12 or PHY 12 or PHY 32 to fulfill the 6<sup>th</sup> course in the Flexible Core. If students transferring into this program complete different course in these areas, they will be certified as having completed the Common Core requirements, but it may not be possible for them to finish their degree within the regular number (60) of credits.
- Students are encouraged to begin Transfer Planning early in their academic careers. Please visit the Transfer Planning web site for the timeline as well as information on articulation and transfer. <http://www.bcc.cuny.edu/TransferCounseling/>.

### REQUIRED COMMON CORE

<input type="checkbox"/> A	English Composition ENG 110 OR ENG 111; AND ENG 112 OR ENG 113 OR ENG 114 OR ENG 115 OR ENG 116	6
<input type="checkbox"/> B	Mathematical and Quantitative Reasoning MTH 31 <sup>1</sup> Calculus & Analytic Geometry I	4
<input type="checkbox"/> C	Life and Physical Sciences <sup>2</sup> Lab Science I (BIO 11 or CHM 11 or PHY 11 or PHY 31)	4
<b>Subtotal:</b>		<b>14</b>

### FLEXIBLE COMMON CORE (Course list at: <http://www.bcc.cuny.edu/pathways/?p=Flexible-Common-Core>)

Students can complete no more than two courses from any one discipline or interdisciplinary field.		
<input type="checkbox"/> A	World Cultures and Global Issues	3
<input type="checkbox"/> B	US Experience in its Diversity	3
<input type="checkbox"/> C	Creative Expression	3
<input type="checkbox"/> D	Individual and Society	3
<input type="checkbox"/> E	Scientific World CSI 30 Discrete Mathematics I AND Lab Science II (BIO 12 or CHM 12 or PHY 12 or PHY 32)	7
<b>Subtotal:</b>		<b>19</b>

### MAJOR REQUIREMENTS

<input type="checkbox"/> MTH 32	Analytic Geometry & Calculus II	5
<input type="checkbox"/> MTH 33	Analytic Geometry & Calculus III	5
<input type="checkbox"/> CSI 31	Introduction to Computer Programming I	3
<input type="checkbox"/> CSI 32	Introduction to Computer Programming II	3
<input type="checkbox"/> CSI 35	Discrete Mathematics II	3
<input type="checkbox"/> CSI 33	Data Structures	3
<input type="checkbox"/> ELECTIVES	MTH 30 <sup>1</sup> and/or Free Electives	1-5
<b>Subtotal:</b>		<b>27</b>
<b>TOTAL:</b>		<b>60</b>